```
MMM          MMM     AAAAAAAAA        IIIIIIIII     LLL
MMM          MMM     AAAAAAAAA        IIIIIIIII     LLL
MMM          MMM     AAAAAAAAA        IIIIIIIII     LLL
MMMMMM    MMMMMM   AAA         AAA       III        LLL
MMMMMM    MMMMMM   AAA         AAA       III        LLL
MMMMMM    MMMMMM   AAA         AAA       III        LLL
MMM   MMM   MMM    AAA         AAA       III        LLL
MMM   MMM   MMM    AAA         AAA       III        LLL
MMM   MMM   MMM    AAA         AAA       III        LLL
MMM         MMM    AAA         AAA       III        LLL
MMM         MMM    AAA         AAA       III        LLL
MMM         MMM    AAA         AAA       III        LLL
MMM         MMM    AAAAAAAAAAAAAAA       III        LLL
MMM         MMM    AAAAAAAAAAAAAAA       III        LLL
MMM         MMM    AAAAAAAAAAAAAAA       III        LLL
MMM         MMM    AAA         AAA       III        LLL
MMM         MMM    AAA         AAA       III        LLL
MMM         MMM    AAA         AAA       III        LLL
MMM         MMM    AAA         AAA    IIIIIIIII     LLLLLLLLLLLLLLL
MMM         MMM    AAA         AAA    IIIIIIIII     LLLLLLLLLLLLLLL
MMM         MMM    AAA         AAA    IIIIIIIII     LLLLLLLLLLLLLLL
```

```
  GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  UU      UU    SSSSSSSS  EEEEEEEEEE  RRRRRRRR
  GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  UU      UU    SSSSSSSS  EEEEEEEEEE  RRRRRRRR
GG          EE              TT      UU      UU  SS          EE          RR      RR
GG          EE              TT      UU      UU  SS          EE          RR      RR
GG          EE              TT      UU      UU  SS          EE          RR      RR
GG          EE              TT      UU      UU  SS          EE          RR      RR
GG          EEEEEEEE        TT      UU      UU    SSSSSS    EEEEEEEE    RRRRRRRR
GG          EEEEEEEE        TT      UU      UU    SSSSSS    EEEEEEEE    RRRRRRRR
GG  GGGGGG  EE              TT      UU      UU          SS  EE          RR  RR
GG  GGGGGG  EE              TT      UU      UU          SS  EE          RR  RR
GG      GG  EE              TT      UU      UU          SS  EE          RR    RR      ....
GG      GG  EE              TT      UU      UU          SS  EE          RR    RR      ....
  GGGGGG    EEEEEEEEEE      TT      UUUUUUUUUU  SSSSSSSS    EEEEEEEEEE  RR      RR    ....
  GGGGGG    EEEEEEEEEE      TT      UUUUUUUUUU  SSSSSSSS    EEEEEEEEEE  RR      RR    ....

LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

Table of contents

(1) 71 DECLARATIONS
(1) 132 MAIL$OPEN_UAF
(1) 194 MAIL$GET_USER

```
0000     1          .TITLE  MAIL$GETUSER            GET USER AUTHORIZATION INFO
0000     2          .IDENT  'V04-000'
0000     3 ;
0000     4 ;*****************************************************************************
0000     5 ;*                                                                           *
0000     6 ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
0000     7 ;*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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0000    17 ;*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE    *
0000    18 ;*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
0000    19 ;*  CORPORATION.                                                             *
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0000    21 ;*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS    *
0000    22 ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
0000    23 ;*                                                                           *
0000    24 ;*                                                                           *
0000    25 ;*****************************************************************************
0000    26 ;
0000    27
0000    28 ;++
0000    29 ; FACILITY:     VAX/VMS MAIL UTILITY
0000    30 ;
0000    31 ; ABSTRACT:     GET USER AUTHORIZATION INFO
0000    32 ;
0000    33 ;
0000    34 ; ENVIRONMENT:  NATIVE/USER MODE
0000    35 ;
0000    36 ; AUTHOR:       LEN KAWELL, CREATION DATE: 23-AUG-78
0000    37 ;
0000    38 ; MODIFICATION HISTORY:
0000    39 ;
0000    40 ;       V03-009 BLS0261         Benn Schreiber          16-Jan-1984
0000    41 ;               UAF$B_FLAGS is now UAF$L_FLAGS
0000    42 ;
0000    43 ;       V03-008 BLS0255         Benn Schreiber          28-Dec-1983
0000    44 ;               Use new global flags
0000    45 ;
0000    46 ;       V03-007 BLS0229         Benn Schreiber          16-Jul-1983
0000    47 ;               SYSUAF is now only read.  Remove unneeded routines to
0000    48 ;               lock and update uaf records.  Make uaf buffer allocated
0000    49 ;               dynamically rather than static.  Change DSBMSK usage
0000    50 ;               to LNM_MODE.
0000    51 ;
0000    52 ;       V03-006 BLS0227         Benn Schreiber           1-Jul-1983
0000    53 ;               If network slave, tell node name with NOSUCHUSR error
0000    54 ;
0000    55 ;       V03-005 BLS0221         Benn Schreiber           5-May-1983
0000    56 ;               Fix handling of SYSPRV
0000    57 ;
```

```
0000     58 ;        V03-004 BLS0211         Benn Schreiber          13-Mar-1983
0000     59 ;                Prevent looping on global buffer error
0000     60 ;
0000     61 ;        V03-003 BLS0197         Benn Schreiber           9-Dec-1982
0000     62 ;                Handle case of failing to map global buffers on SYSUAF
0000     63 ;
0000     64 ;        V03-002 BLS0182         Benn Schreiber           4-Aug-1982
0000     65 ;                Disable process and group logical name table searches
0000     66 ;
0000     67 ;        V03-001 BLS0177         Benn Schreiber          21-Jun-1982
0000     68 ;                Remove definition of UAF$S_USERNAME, as it is in $UAFDEF
0000     69 ;--
```

```
                     0000     71          .SBTTL  DECLARATIONS
                     0000     72 ;
                     0000     73 ; INCLUDE FILES:
                     0000     74 ;
                     0000     75
                     0000     76 ;
                     0000     77 ; MACROS:
                     0000     78 ;
                     0000     79
                     0000     80 ;
                     0000     81 ; EQUATED SYMBOLS:
                     0000     82 ;
                     0000     83          MAIFDEF                         ;MAIL CONTROL FLAG DEFINITIONS
                     0000     84          $PRVDEF                         ;PROCESS PRIVILEGE DEFINITIONS
                     0000     85          $PSLDEF                         ;PROCESSOR STATUS LONGWORD DEFS
                     0000     86          $UAFDEF                         ;USER AUTHORIZATION FILE DEFINTITIONS
                     0000     87          $STSDEF                         ;STATUS MESSAGE DEFINITIONS
                     0000     88
                     0000     89          .GLOBAL UAF$L_FLAGS,UAF$V_NOMAIL ;MAKE SYMBOLS GLOBAL FOR ADDRLIST
                     0000     90
00000004             0000     91 USERNAME         = 4                     ;USER NAME ARGUMENT OFFSET
00000008             0000     92 REC_ADDR         = 8                     ;RECORD ADDRESS ARGUMENT OFFSET
                     0000     93
00000002             0000     94 RETRY_RLK        = 2                     ;NUMBER OF RETRIES IF RECORD IS LOCKED
0000004B             0000     95 SLEEP_RLK        = 75                    ;MSEC TO SLEEP BEFORE RETRYING A $GET
                     0000     96
                     0000     97 ;
                     0000     98 ; OWN STORAGE:
                     0000     99 ;
                 00000000    100          .PSECT  $OWN$,LONG,RD,WRT,NOEXE
                     0000    101
                     0000    102          .ALIGN  LONG
                     0000    103
                     0000    104 MAIL$T_UAF_BUFF::                       ;ADDRESS OF UAF BUFFER
                 00000000    105          .LONG   0
                     0004    106 UAF_FAB:                                ;USER AUTHORIZATION FILE FAB
                     0004    107          $FAB-
                     0004    108          DNM=<SYS$SYSTEM:.DAT>,-         ; DEFAULT NAME
                     0004    109          FNM=<SYSUAF>,-                  ; FILE NAME (SEPARATED FOR: $ DEFINE SYSUAF
                     0004    110          FAC=<GET>,-                     ; GET ACCESS
                     0004    111          SHR=<PUT,GET,DEL,UPD>           ; SHARED ACCESS
                     0054    112
                     0054    113 UAF_RAB:                                ;USER AUTHORIZATION FILE RAB
                     0054    114          $RAB-
                     0054    115          FAB=UAF_FAB,-                   ; ADDR OF FAB
                     0054    116          KBF=NAME_BUFF,-                 ; KEY BUFFER
                     0054    117          KSZ=UAF$S_USERNAME,-            ; KEY SIZE
                     0054    118          RAC=KEY,-                       ; RECORD ACCESS BY KEY
                     0054    119          ROP=RLK,-                       ; READ OF LOCKED RECORD ALLOWED
                     0054    120          USZ=UAF$C_LENGTH                ; BUFFER SIZE
                     0098    121
                     0098    122 NAME_BUFF:
                 000000B8    123          .BLKB   UAF$S_USERNAME          ; KEY BUFFER
                 00000000    124          .PSECT  $PLIT$,LONG,RD,NOWRT,NOEXE
                     0000    125
                     0000    126 WAKEDELTA:                              ;LOCKED RECORD RETRY HIBERNATE TIME
FFFFFFFF FFF48E50    0000    127          .LONG   -10*1000*SLEEP_RLK,-1
```

```
                0008    128
00000000        0008    129             .PSECT  $CODE$,LONG,RD,NOWRT,EXE
                0000    130
```

```
                                0000   132          .SBTTL  MAIL$OPEN_UAF
                                0000   133 ;++
                                0000   134 ; FUNCTIONAL DESCRIPTION:
                                0000   135 ;
                                0000   136 ;       OPEN SYSTEM USER AUTHORIZATION FILE
                                0000   137 ;
                                0000   138 ; CALLING SEQUENCE:
                                0000   139 ;       CALL MAIL$OPEN_UAF
                                0000   140 ;
                                0000   141 ; INPUT PARAMETERS:
                                0000   142 ;       NONE
                                0000   143 ;
                                0000   144 ; IMPLICIT INPUTS:
                                0000   145 ;       NONE
                                0000   146 ;
                                0000   147 ; OUTPUT PARAMETERS:
                                0000   148 ;       NONE
                                0000   149 ;
                                0000   150 ; IMPLICIT OUTPUTS:
                                0000   151 ;       NONE
                                0000   152 ;
                                0000   153 ; COMPLETION CODES:
                                0000   154 ;       R0 = SUCCESS OR FAILURE
                                0000   155 ;
                                0000   156 ; SIDE EFFECTS:
                                0000   157 ;       FAILURES SIGNALLED.
                                0000   158 ;
                                0000   159 ;--
                        000C    0000   160          .ENTRY  MAIL$OPEN_UAF,^M<R2,R3> ;OPEN USER AUTHORIZATION FILE
    52  00000004'EF         9E 0002   161          MOVAB   UAF_FAB,R2              ;POINT AT THE FAB
    53  00000054'EF         9E 0009   162          MOVAB   UAF_RAB,R3              ;AND THE RAB
          00         01      F0 0010   163          INSV    #PSL$C_EXEC,#FAB$V_LNM_MODE,- ;SEARCH ONLY SYSTEM LOG NAMES
         4A A2       02         0013   164                  #FAB$S_LNM_MODE,FAB$B_ACMODES(R2)
                     7E      D4 0016   165          CLRL    -(SP)                   ;ENABLE SYSTEM UIC PRIVILEGE
              10000000   8F      DD 0018   166          PUSHL   #<1@PRV$V_SYSPRV>
    00000000'EF          02      FB 001E   167          CALLS   #2,MAIL$UP_PRIV         ;RAISE PRIVILEGES
                                0025   168          $OPEN   (R2)                    ;OPEN AUTHORIZATION FILE
                     50      DD 002E   169          PUSHL   R0                      ;SAVE STATUS
    00000000'EF          00      FB 0030   170          CALLS   #0,MAIL$DOWN_PRIV       ;DISABLE SYSTEM UIC PRIVILEGE
                     50   8ED0 0037   171          POPL    R0                      ;RESTORE STATUS
                   2C    50      E9 003A   172          BLBC    R0,10$                  ;BR IF ERROR
  24 A3    00000000'EF          D0 003D   173          MOVL    MAIL$T_UAF_BUFF,RAB$L_UBF(R3) ;SET USER BUFFER ADDRESS
                                0045   174 5$:       $CONNECT (R3)                   ;CONNECT THE RAB
                   33    50      E8 004E   175          BLBS    R0,20$                  ;BR IF SUCCESS
        08 A2      08    A3      D0 0051   176          MOVL    RAB$L_STS(R3),FAB$L_STS(R2) ;SAVE INFO IN FAB FOR ERROR
    00000000'8F          50      D1 0056   177          CMPL    R0,#RMS$_CRMP           ;WAS IT FAILURE TO MAP GLOBAL BUFFERS?
                     0A      12 005D   178          BNEQ    10$                     ;BRANCH IF NOT
                   48 A2     B5 005F   179          TSTW    FAB$W_GBC(R2)           ;BEEN HERE ALREADY?
                     05      13 0062   180          BEQL    10$                     ;IF EQL YES--GO REPORT ERROR
                   48 A2     B4 0064   181          CLRW    FAB$W_GBC(R2)           ;CLEAR THE GLOBAL BUFFER COUNT
                     DC      11 0067   182          BRB     5$                      ;AND TRY AGAIN
                                0069   183 10$:
                   0C A2     DD 0069   184          PUSHL   FAB$L_STV(R2)           ;SET RMS STATUS VALUE
                     50      DD 006C   185          PUSHL   R0                      ;SET RMS STATUS
                     00      DD 006E   186          PUSHL   #0                      ;SET FAO COUNT
              00000000'8F    DD 0070   187          PUSHL   #MAIL$_UAFOPNERR        ;SET ERROR STATUS
    00000000'GF          04      FB 0076   188          CALLS   #4,G^LIB$SIGNAL         ;SIGNAL THE ERROR
```

```
                50    10000000 8F    C8  007D    189                 BISL    #STS$M_INHIB_MSG,R0     ;INHIBIT FURTHER MESSAGES
                                     0084    190 20$:
                                 04  0084    191                 RET
                                     0085    192
```

```
                     0085   194          .SBTTL  MAIL$GET_USER
                     0085   195 ;++
                     0085   196 ; FUNCTIONAL DESCRIPTION:
                     0085   197 ;
                     0085   198 ;       GET AND USER ATHORIZATION RECORD.
                     0085   199 ;
                     0085   200 ; CALLING SEQUENCE:
                     0085   201 ;       CALL MAIL$GET_USER(USERNAME)
                     0085   202 ;
                     0085   203 ; INPUT PARAMETERS:
                     0085   204 ;       USERNAME = ADDR OF USERNAME DESC
                     0085   205 ;
                     0085   206 ; IMPLICIT INPUTS:
                     0085   207 ;       UAF_FAB IS OPEN AND UAF_RAB IS CONNECTED TO IT.
                     0085   208 ;
                     0085   209 ; OUTPUT PARAMETERS:
                     0085   210 ;       NONE
                     0085   211 ;
                     0085   212 ; IMPLICIT OUTPUTS:
                     0085   213 ;       MAIL$T_UAF_BUFF = ADDRESS OF USER AUTHORIZATION RECORD.
                     0085   214 ;
                     0085   215 ; COMPLETION CODES:
                     0085   216 ;       R0 = SUCCESS OR FAILURE.
                     0085   217 ;
                     0085   218 ; SIDE EFFECTS:
                     0085   219 ;       FAILURES SIGNALLED.
                     0085   220 ;
                     0085   221 ;--
                003C 0085   222          .ENTRY  MAIL$GET_USER,-         ;GET USER AUTHORIZATION RECORD
                     0087   223                  ^M<R2,R3,R4,R5>         ;
00000058'EF   00100000 8F    C8 0087   224          BISL    #RAB$M_NLK,RAB$L_ROP+UAF_RAB ;SET NO-LOCK FLAG
                     0092   225 ;
                     0092   226 ; GET THE RECORD
                     0092   227 ;
          54    04 AC    D0 0092   228          MOVL    USERNAME(AP),R4         ;GET ADDR OF USERNAME DESC
    20    20    04 B4    64 2C 0096   229          MOVC5   (R4),@4(R4),#^A" ",#UAF$S_USERNAME,NAME_BUFF ;BLANK FILL NAME
          00000098'EF       009C
             53    02    D0 00A1   230          MOVL    #RETRY_RLK,R3           ;INIT RETRY COUNTER
                   1D    11 00A4   231          BRB     20$                     ;SKIP WAIT THE FIRST TIME
                         00A6   232 10$:    $SCHDWK_S DAYTIM=WAKEDELTA        ;SCHEDULE A WAKEUP REQUEST
                07 50    E9 00B9   233          BLBC    R0,20$                  ;BR IF FAILURE
                         00BC   234          $HIBER_S                        ;HIBERNATE FOR A WHILE
                         00C3   235 20$:    $GET    UAF_RAB                 ;GET THE USER'S RECORD
                0E 50    E8 00D0   236          BLBS    R0,30$                  ;BR IF SUCCESS
          00000000'8F    50 D1 00D3   237          CMPL    R0,#RMS$_RLK            ;RECORD LOCK ERROR?
                   06    12 00DA   238          BNEQ    GET_ERR                 ;BR IF NOT
                C7 53    F4 00DC   239          SOBGEQ  R3,10$                  ;TRY AGAIN IF IT WAS
                   01    11 00DF   240          BRB     GET_ERR                 ;
                         00E1   241 30$:
                   04    00E1   242          RET
                         00E2   243 ;
                         00E2   244 ; ERROR GETTING RECORD
                         00E2   245 ;
                         00E2   246 GET_ERR:                                ;ERROR READING UAF
    50    00000000'8F    D1 00E2   247          CMPL    #RMS$_RNF,R0            ;RECORD NOT FOUND?
                   34    12 00E9   248          BNEQ    10$                     ;IF NEQ NO - SOME OTHER ERROR
 19 00000000'EF    01    E1 00EB   249          BBC     #MAIF_V_NETJOB,MAIL$GL_FLAGS,5$ ;BRANCH IF NOT NETWORK JOB
```

```
                00000000'EF   7F   00F3   250          PUSHAQ  MAIL$Q_SYSNODE          ;STACK ADDR OF NODE NAME
                      04 BC   7F   00F9   251          PUSHAQ  @USERNAME(AP)           ;SET ADDR OF USERNAME DESC
                         02   DD   00FC   252          PUSHL   #2                      ;SET NUMBER OF FAO ARGS
                00000000'8F   DD   00FE   253          PUSHL   #MAIL$_NOSUCHUSRAT      ;ERROR STATUS
             00000000'GF   04   FB   0104   254          CALLS   #4,G^LIB$SIGNAL         ;SIGNAL THE ERROR
                         04   010B   255                RET
                      04 BC   7F   010C   256 5$:      PUSHAQ  @USERNAME(AP)           ;SET ADDR OF USERNAME DESC
                         01   DD   010F   257          PUSHL   #1                      ;SET NUMBER OF FAO ARGUMENTS
                00000000'8F   DD   0111   258          PUSHL   #MAIL$_NOSUCHUSR        ;SET ERROR STATUS
             00000000'GF   03   FB   0117   259          CALLS   #3,G^LIB$SIGNAL         ;SIGNAL THE ERROR
                         04   011E   260                RET
                              011F   261 10$:
                00000060'EF   DD   011F   262          PUSHL   RAB$L_STV+UAF_RAB       ;SET RMS STATUS VALUE
                         50   DD   0125   263          PUSHL   R0                      ;SET RMS STATUS
                         00   DD   0127   264          PUSHL   #0                      ;SET FAO COUNT
                00000000'8F   DD   0129   265          PUSHL   #MAIL$_UAFGETERR        ;SET ERROR STATUS
             00000000'GF   03   FB   012F   266          CALLS   #3,G^LIB$SIGNAL         ;SIGNAL THE ERROR
                         04   0136   267                RET
                              0137   268
                              0137   269          .END
```

```
$$.TAB                          = 00000054 R      02
$$.TABEND                       = 00000098 R      02
$$.TMP                          = 00080000
$$.TMP1                         = 00000001
$$.TMP2                         = 000000AF
$$.TMPX                         = 00000006 R      03
$$.TMPX1                        = 0000000F
FAB$B_ACMODES                   = 0000004A
FAB$B_DNS                       = 00000035
FAB$B_FNS                       = 00000034
FAB$C_BID                       = 00000003
FAB$C_BLN                       = 00000050
FAB$C_SEQ                       = 00000000
FAB$C_VAR                       = 00000002
FAB$L_ALQ                       = 00000010
FAB$L_DNA                       = 00000030
FAB$L_FNA                       = 0000002C
FAB$L_FOP                       = 00000004
FAB$L_STS                       = 00000008
FAB$L_STV                       = 0000000C
FAB$S_LNM_MODE                  = 00000002
FAB$V_CHAN_MODE                 = 00000002
FAB$V_DEL                       = 00000002
FAB$V_FILE_MODE                 = 00000004
FAB$V_GET                       = 00000001
FAB$V_LNM_MODE                  = 00000000
FAB$V_PUT                       = 00000000
FAB$V_UPD                       = 00000003
FAB$W_GBC                       = 00000048
GET_ERR                           000000E2 R      05
LIB$SIGNAL                        ******** X      05
MAIFDEF                         = 00000000
MAIF_L_FLAGS                    = 00000000
MAIF_M_ALTP                     = 00000400
MAIF_M_ATTACHMENT               = 00080000
MAIF_M_BATCH                    = 00000200
MAIF_M_CALEDT                   = 00008000
MAIF_M_CAPTIVE                  = 00004000
MAIF_M_CTRLCFL                  = 00000100
MAIF_M_DFMSG                    = 00001000
MAIF_M_EDTEDT                   = 00010000
MAIF_M_EDTXYZ                   = 00020000
MAIF_M_FILOPN                   = 00000800
MAIF_M_ISAM                     = 00000001
MAIF_M_ITERM                    = 00000004
MAIF_M_NETJOB                   = 00000002
MAIF_M_OTERM                    = 00000008
MAIF_M_RDHOLD                   = 00000020
MAIF_M_READ_FL                  = 00000040
MAIF_M_RECL                     = 00000080
MAIF_M_SCOPE                    = 00000010
MAIF_M_SERVERLOOP               = 00040000
MAIF_M_USEREDIT                 = 00002000
MAIF_S_MAIFDEF                  = 00000004
MAIF_V_ALTP                     = 0000000A
MAIF_V_ATTACHMENT               = 00000013
MAIF_V_BATCH                    = 00000009
MAIF_V_CALEDT                   = 0000000F
MAIF_V_CAPTIVE                  = 0000000E
MAIF_V_CTRLCFL                  = 00000008
MAIF_V_DFMSG                    = 0000000C
MAIF_V_EDTEDT                   = 00000010
MAIF_V_EDTXYZ                   = 00000011
MAIF_V_FILOPN                   = 0000000B
MAIF_V_ISAM                     = 00000000
MAIF_V_ITERM                    = 00000002
MAIF_V_NETJOB                   = 00000001
MAIF_V_OTERM                    = 00000003
MAIF_V_RDHOLD                   = 00000005
MAIF_V_READ_FL                  = 00000006
MAIF_V_RECL                     = 00000007
MAIF_V_SCOPE                    = 00000004
MAIF_V_SERVERLOOP               = 00000012
MAIF_V_USEREDIT                 = 0000000D
MAIL$DOWN_PRIV                    ********   X    05
MAIL$GET_USER                     00000085 RG     05
MAIL$GL_FLAGS                     ********   X    05
MAIL$OPEN_UAF                     00000000 RG     05
MAIL$Q_SYSNODE                    ********   X    05
MAIL$T_UAF_BUFF                   00000000 RG     02
MAIL$UP_PRIV                      ********   X    05
MAIL$_NOSUCHUSR                   ********   X    05
MAIL$_NOSUCHUSRAT                 ********   X    05
MAIL$_UAFGETERR                   ********   X    05
MAIL$_UAFOPNERR                   ********   X    05
NAME_BUFF                         00000098 R      02
PRV$V_SYSPRV                    = 0000001C
PSL$C_EXEC                      = 00000001
RAB$B_RAC                       = 0000001E
RAB$C_BID                       = 00000001
RAB$C_BLN                       = 00000044
RAB$C_KEY                       = 00000001
RAB$L_CTX                       = 00000018
RAB$L_ROP                       = 00000004
RAB$L_STS                       = 00000008
RAB$L_STV                       = 0000000C
RAB$L_UBF                       = 00000024
RAB$M_NLK                       = 00100000
RAB$V_RLK                       = 00000013
REC_ADDR                        = 00000008
RETRY_RLK                       = 00000002
RMS$_CRMP                         ********   X    05
RMS$_RLK                          ********   X    05
RMS$_RNF                          ********   X    05
SLEEP_RLK                       = 0000004B
STS$M_INHIB_MSG                 = 10000000
SYS$CONNECT                       ********  GX    05
SYS$GET                           ********  GX    05
SYS$HIBER                         ********  GX    05
SYS$OPEN                          ********  GX    05
SYS$SCHDWK                        ********  GX    05
UAF$C_LENGTH                    = 00000584
UAF$S_USERNAME                  = 00000020
UAF_FAB                           00000004 R      02
```

```
UAF_RAB                         00000054 R      02
USERNAME                      = 00000004
WAKEDELTA                       00000000 R      04
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
ABS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
OWN	000000B8 (184.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
$RMSNAM	00000015 (21.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
$PLIT$	00000008 (8.)	04 (4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
$CODE$	00000137 (311.)	05 (5.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	34	00:00:00.05	00:00:02.16
Command processing	146	00:00:00.43	00:00:03.72
Pass 1	265	00:00:04.70	00:00:23.39
Symbol table sort	0	00:00:00.59	00:00:02.18
Pass 2	64	00:00:00.96	00:00:04.95
Symbol table output	16	00:00:00.08	00:00:00.33
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	528	00:00:06.83	00:00:36.75

```
The working set limit was 1350 pages.
35915 bytes (71 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 660 non-local and 8 local symbols.
269 source lines were read in Pass 1, producing 25 object records in Pass 2.
31 pages of virtual memory were used to define 24 macros.
```

Macro library statistics

Macro library name	Macros defined
_255DUA28:[MAIL.OBJ]MAILMAC.MLB;1	1
_255DUA28:[SYS.OBJ]LIB.MLB;1	1
_255DUA28:[SYSLIB]STARLET.MLB;2	19
TOTALS (all libraries)	21

```
915 GETS were required to define 21 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:GETUSER/OBJ=OBJ$:GETUSER MSRC$:GETUSER/UPDATE=(ENH$:GETUSER)+EXECML$/LIB+LIB$:MAILMAC/LIB
```

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CMDS
LIS

DIRECTORY
LIS

SPAWNCMD
CLD

MAILREQ
REQ

EDIT
LIS

GETUSER
LIS

MAILDEF
SDL

ADDRLIST
LIS

GETNEW
LIS

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IOSUBS
LIS

HANDLER
LIS

MAIL
LIS

ISUBS
LIS